Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A system for generating an enhanced data, comprising:

an input interface ~~receiving~~ that receives data associated with a modem-based data session established via at least one circuit-switched network communicating with at least one asymmetric-routing ~~asymmetrically routed~~ data network that is capable of facilitating a transfer of encapsulated data packets that are associated with the modem-based data session and operable to send using a tunneling protocol for delivery via one or more virtual connections;

at least one enhancement cluster for processing the encapsulated data packets that enhances a connection from a source to a destination network; and

at least one virtual point-to-point connection for communicating the encapsulated data packets over a communications path traversing the at least one asymmetric-routing data network, wherein the at least one communications path couples the input interface to the at least one enhancement cluster, and wherein the at least one virtual point-to-point connection emulates a dedicated connection path connecting the input interface to the at least one enhancement cluster ~~at least one tunnel, communicating with the input interface and receiving the data session; and~~

~~at least one enhancement cluster, communicating with the at least one tunnel and a destination network for the data session, the enhancement cluster processing the data session to enhance a connection to the destination network~~.

2. (original) A system according to claim 1, wherein the input interface comprises a set of remote access servers.

3. (currently amended) A system according to claim 1, wherein the encapsulated data packets are sent using a tunneling protocol comprising a Layer 2 tunneling protocol ~~wherein the at least one tunnel comprises a Layer 2 Tunneling Protocol tunnel~~.

4. (currently amended) A system according to claim 1, wherein the at least one virtual point-to-point connection comprises a plurality of virtual point-to-point connections ~~wherein the at least one tunnel comprises a plurality of tunnels~~.

5. (original) A system according to claim 1, wherein the at least one enhancement cluster comprises a set of load balancers.

6. (original) A system according to claim 1, wherein the at least one enhancement cluster comprises a set of compression servers.

7. (original) A system according to claim 1, wherein the at least one enhancement cluster comprises a set of tunnel servers.

8. (original) A system according to claim 1, wherein the at least one enhancement cluster comprises a set of distributed enhancement platforms.

9. (original) A system according to claim 8, wherein at least two of the set of distributed enhancement platforms are operated by separate access providers.

10. (original) A system according to claim 9, wherein the at least two of the set of distributed enhancement platforms are hosted at separate locations.

11. (currently amended) A system according to claim 1, wherein processing the data packets ~~wherein the enhancement of the data session~~ comprises at least one of applying compression, applying decompression, performing caching, applying optimization, and applying security to the data session.

12. (original) A system according to claim 1, wherein the destination network comprises the Internet.

13. (original) A system according to claim 1, wherein the data session originates as a point-to-point session.

14. (currently amended) A system according to claim 1, wherein access to the enhancement cluster is granted based on one or more of a password, certificate, and cookie ~~wherein the connection to the destination network comprises a non-point-to-point session~~.

15. (original) A system according to claim 1, wherein access to the enhancement cluster is discriminated by at least a domain name.

16. (original) A system according to claim 1, further comprising an interface to an authentication platform, the authentication platform authenticating the data session for access to the enhancement cluster.

17. (currently amended) One or more computer-storage media having computer-executable instructions embodied thereon for performing a method of enhancing a data connection from a source to a destination network, the method comprising: ~~A method for generating an enhanced data connection, comprising:~~

receiving data associated with a modem-based data session established via at least one circuit-switched network communicating with at least one ~~asymmetrically routed~~ data network that facilitates asymmetric data routing;

encapsulating packets of the data to be sent in a tunneling protocol for delivery via one or more virtual connections;

communicating the encapsulated data packets via at least one virtual point-to-point connection over a communications path traversing the at least one data network, wherein the at least one communications path couples at least one remote access server to at least one enhancement cluster, and wherein the virtual point-to-point connection emulates a dedicated connection path connecting the at least one remote access server to the at least one enhancement cluster; and ~~receiving the data session via at least one tunnel; and~~

processing the data packets ~~session~~ in the at least one enhancement cluster to enhance the data connection ~~enhance a connection to a destination network~~.

18. (currently amended) The media of claim 17, ~~A method according to claim 17~~, wherein the step of receiving comprises receiving the data associated with a modem-based data session in the at least one remote access server ~~modem-based data session in a set of remote access servers~~.

19. (currently amended) The media of claim 17, wherein the tunneling protocol comprises at lest one of a Layer 2 tunneling protocol and a Layer 3 tunneling protocol ~~A method according to claim 17, wherein the at least one tunnel comprises a Layer 2 Tunneling Protocol tunnel~~.

20. (currently amended) The media of claim 17, wherein the at least one virtual point-to-point connection comprises a plurality of virtual point-to-point connections ~~A method according to claim 17, wherein the at least one tunnel comprises a plurality of tunnels~~.

21. (currently amended) The media of claim 17, ~~A method according to claim 17,~~ wherein the at least one enhancement cluster comprises a set of load balancers.

22. (currently amended) The media of claim 17, ~~A method according to claim 17,~~ wherein the at least one enhancement cluster comprises a set of compression servers.

23. (currently amended) The media of claim 17, ~~A method according to claim 17,~~ wherein the at least one enhancement cluster comprises a set of tunnel network servers.

24. (currently amended) The media of claim 17, ~~A method according to claim 17,~~ wherein the at least one enhancement cluster comprises a set of distributed enhancement platforms.

25. (currently amended) The media of claim 24, ~~A method according to claim 24,~~ wherein at least two of the set of distributed enhancement platforms are operated by separate access providers.

26. (currently amended) The media of claim 25, ~~A method according to claim 25~~, wherein the at least two of the set of distributed enhancement platforms are hosted at separate locations.

27. (currently amended) The media of claim 17, ~~A method according to claim 17,~~ wherein the processing comprises at least one of applying compression, applying decompression, performing caching, applying optimization, and applying security to the data packets ~~session~~.

28. (currently amended) The media of claim 17, ~~A method according to claim 17,~~ wherein the destination network comprises the Internet.

29. (currently amended) The media of claim 17, ~~A method according to claim 17,~~ wherein the data session originates as a point-to-point session.

30. (currently amended) The media of claim 17, further comprising discriminating access to the enhancement cluster based on at least one of a password, certificate, and cookie ~~A method according to claim 17, wherein the connection to the destination network comprises a non-point-to-point session~~.

31. (currently amended) The media of claim 17, ~~A method according to claim 17,~~ further comprising discriminating the access to the enhancement cluster by at least a domain name.

32. (currently amended) The media of claim 17, ~~A method according to claim 17,~~ further comprising authenticating the data session for access to the enhancement cluster.

33. (currently amended) A system for generating an enhanced data connection, comprising:

input interface means for receiving data associated with a modem-based data session established via at least one circuit-switched network communicating with at least one ~~asymmetrically routed~~ data network that facilitates asymmetric data routing;

encapsulation means for encapsulating data packets, of the data associated with a modem-based data session, operable for sending using a tunneling protocol means for delivery via one or more virtual connections; ~~at least one tunnel means, communicating with the input interface and receiving the data session; and~~

at least one enhancement-cluster means for processing the data packets to enhance a connection from a source to a destination network; and

at least one virtual point-to-point connecting means for communicating the encapsulated data packets over a communications path traversing the at least one data network, wherein the at least one communications path couples the input interface to the at least one enhancement cluster, and wherein the at least one virtual point-to-point connecting means includes a means for emulating a dedicated connection path connecting the input interface to the at least one enhancement cluster

~~at least one enhancement cluster means, communicating with the at least one tunnel means and a destination network for the data session, the enhancement cluster means processing the data session to enhance a connection to the destination network~~.

34. (original) A system according to claim 33, wherein the at least one enhancement cluster means comprises a set of compression server means.

35. (original) A system according to claim 33, wherein the at least one enhancement cluster means comprises a set of distributed enhancement platform means.

36. (original) A system according to claim 35, wherein at least two of the set of distributed enhancement platform means are operated by separate access providers.

37. (currently amended) A system according to claim 33, wherein the means for processing the data packets ~~wherein the enhancement of the data session~~ comprises at least one of applying compression, applying decompression, performing caching, applying optimization, and applying security to the data session.

38. (original) A system according to claim 33, wherein the destination network comprises the Internet.

39. (original) A system according to claim 33, wherein the data session originates as a point-to-point session.

40. (currently amended) A system according to claim 33, wherein access to the enhancement cluster means is granted based on one or more of a password, certificate, cookie and domain name ~~wherein the connection to the destination network comprises a non-point-to-point session~~.

41. (currently amended) An enhanced data session, the enhanced data session being generated by a method comprising:

receiving data associated with a modem-based data session established via at least a circuit-switched network communicating with at least one asymmetrically-routed ~~asymmetrically routed~~ data network;

encapsulating packets of the data to be sent in a tunneling protocol for delivery via one or more virtual connections; ~~communicating the data session to at least one tunnel;~~

communicating the encapsulated data packets via at least one virtual point-to-point connection over a communications path traversing the at least one data network that facilitates asymmetric data routing, wherein the at least one communications path couples at least one remote access server to at least one enhancement cluster, and wherein the virtual point-to-point connection emulates a dedicated connection path connecting the at least one remote access server to the at least one enhancement cluster; and

~~transmitting the data session to at least one enhancement cluster via the at least one tunnel; and~~

processing the data packets ~~session~~ to generate an enhanced session in the at least one enhancement cluster, the enhanced session connecting to a destination network.

42. (original) An enhanced data session according to claim 41, wherein the at least one enhancement cluster comprises a set of compression servers.

43. (original) An enhanced data session according to claim 41, wherein the at least one enhancement clusters comprises a set of distributed enhancement platforms.

44. (original) An enhanced data session according to claim 43, wherein at least two of the set of distributed enhancement platforms are operated by separate access providers.

45. (original) An enhanced data session according to claim 41, wherein the processing comprises at least one of applying compression, applying decompression, performing caching, applying optimization, and applying security to the data session.

46. (original) An enhanced data session according to claim 41, wherein the destination network comprises the Internet.

47. (original) An enhanced data session according to claim 41, wherein the data session originates as a point-to-point session.

48. (currently amended) An enhanced data session according to claim 41, wherein access to the enhancement cluster is granted based on one or more of a password, certificate, cookie and a domain name ~~wherein the connection to the destination network comprises a non-point-to-point session~~.

49. (currently amended) One or more computer-storage media having computer-executable instructions embodied thereon for performing a method of enhancing a data connection from a source to a destination network, the method comprising: ~~A method for generating an enhanced data connection, comprising:~~

receiving data packets that form a part of a modem-based data session;

encapsulating the data packets to be sent in a tunneling protocol for delivery via one or more virtual connections;

communicating the encapsulated data packets via at least one virtual point-to-point connection over a communications path traversing an asymmetric data network, wherein the at least one communications path couples at least one remote access server to at least one enhancement cluster, and wherein the virtual point-to-point connection emulates a dedicated connection path connecting the at least one remote access server to the at least one enhancement cluster; and ~~communicating the data session via at least one communications path traversing an asymmetric data network to at least one enhancement platform; and~~

processing the data packets ~~session~~ in the at least one enhancement cluster to enhance the data connection ~~enhance a connection to a destination network~~.

50. (currently amended) The media of claim 49, ~~A method according to claim 49,~~ wherein the processing comprises at least one of applying compression, applying decompression, performing caching, applying optimization, and applying security to the data session.

51. (currently amended) The media of claim 49, ~~A method according to claim 49,~~ wherein the destination network comprises the Internet.

52. (currently amended) The media of claim 49, ~~A method according to claim 49,~~ wherein the data session originates as a point-to-point session.

53. (currently amended) The media of claim 49, wherein the tunneling protocol comprises at lest one of a Layer 2 tunneling protocol and a Layer 3 tunneling protocol ~~A method according to claim 49, wherein the connection to the destination network comprises a non point to point session~~.

54. (currently amended) The media of claim 49, wherein the at least one enhancement cluster comprises a set of distributed enhancement platforms ~~A method according to claim 49, wherein the at least one communications path comprises at least one tunnel~~.

55. (currently amended) The media of claim 54, wherein at least two of the enhancement platforms of the set of distributed enhancement platforms are hosted at separate locations ~~A method according to claim 49, wherein the at least one communications path encapsulates the data in a virtual symmetric connection~~.